



ELECTRONICS, INC.  
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## NTE5712 Powerblock Module

### Features:

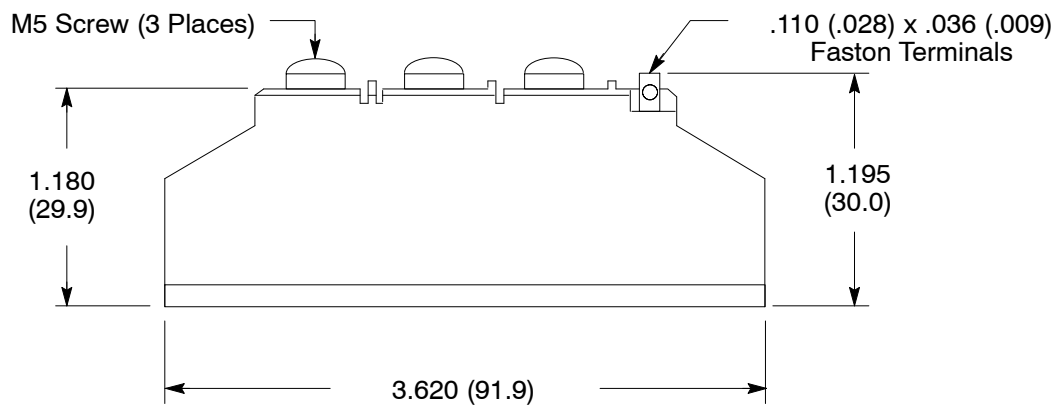
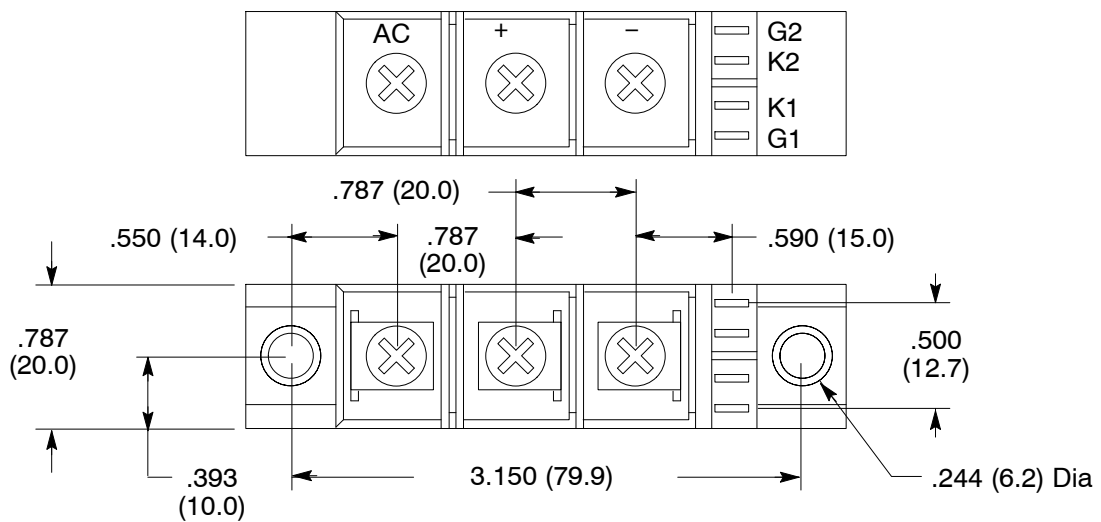
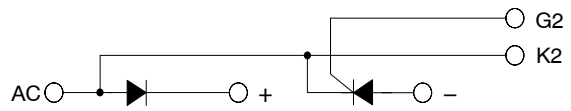
- Isolated Mounting Base
- Pressure Contact Technology with Increased Power Cycling Capability
- Space and Weight Savings

### Applications:

- AC/DC Motor Drives
- DC Supply for PWM Inverter

### Electrical Specifications:

Mean On-State Current, $I_{T(AV)}$ (180° Half Sine Wave, 50Hz, Single Side Cooled, $T_C = +85^\circ\text{C}$ , $T_J = +125^\circ\text{C}$ )	55A
RMS On-State Current ( $T_J = +125^\circ\text{C}$ ), $I_{T(RMS)}$	86A
Repetitive Peak Off-State Voltage ( $t_p = 10\text{ms}$ , $V_{DSM} = 1400\text{V}$ , $T_J = +125^\circ\text{C}$ ), $V_{DRM}$	1200V
Repetitive Peak Reverse Voltage ( $t_p = 10\text{ms}$ , $V_{RSM} = 1400\text{V}$ , $T_J = +125^\circ\text{C}$ ), $V_{DRM}$	1200V
Repetitive Peak Current ( $V_{DRM}/V_{RRM} = 1200\text{V}$ , $T_J = +125^\circ\text{C}$ ), $I_{DRM}$ , $I_{RRM}$	8mA
Surge On-State Current ( $V_R = 720\text{V}$ , 10ms Half Sin Wave, $T_J = +125^\circ\text{C}$ ), $I_{TSM}$	1.5KA
$I^2t$ for Fusing Coordination ( $V_R = 720\text{V}$ , 10ms Half Sin Wave, $T_J = +125^\circ\text{C}$ ), $I^2t$	$9.35\text{A}^2\text{s} \cdot 10^3$
Threshold Voltage ( $T_J = +125^\circ\text{C}$ ), $V_{TO}$	0.85V
On-State Slope Resistance ( $T_J = +125^\circ\text{C}$ ), $r_T$	3.47m $\Omega$
Peak On-State Voltage ( $I_{TM} = 170\text{A}$ , $T_J = +25^\circ\text{C}$ ), $V_{TM}$	1.5V
Critical Rate of Rise of Off-State Voltage ( $V_{DM} = 804\text{V}$ , $T_J = +125^\circ\text{C}$ ), $dv/dt$	800V/ $\mu\text{s}$
Critical Rate of Rise of On-State Current, $di/dt$ ( $I_{TM} = 110\text{A}$ , Gate Source 1.5A, $t_r \leq 0.5\mu\text{s}$ , Repetitive, $T_J = +125^\circ\text{C}$ )	100A/ $\mu\text{s}$
Gate Trigger Current ( $V_A = 12\text{V}$ , $I_A = 1\text{A}$ , $T_J = +25^\circ\text{C}$ ), $I_{GT}$	
Minimum	30mA
Maximum	100mA
Gate Trigger Voltage ( $V_A = 12\text{V}$ , $I_A = 1\text{A}$ , $T_J = +25^\circ\text{C}$ ), $V_{GT}$	
Minimum	0.8V
Maximum	2.5V
Holding Current ( $V_A = 12\text{V}$ , $I_A = 1\text{A}$ , $T_J = +25^\circ\text{C}$ ), $I_H$	
Minimum	20mA
Maximum	150mA
Minimum Isolation Voltage 50Hz, RMS, $t = 1\text{min}$ , $I_{ISOL} = 1\text{mA Max}$ ), $V_{ISOL}$	2500V
Storage Temperature Range, $T_{stg}$	$-40^\circ$ to $+140^\circ\text{C}$
Maximum Thermal Resistance (Single Side Cooled)	
Junction-to-Case, $R_{thJC}$	0.53 $^\circ\text{C/W}$
Case-to-Heat Sink, $R_{thCH}$	0.20 $^\circ\text{C/W}$



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